

Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.

| Random No. | | | | Personal No. | | |
|------------|--|--|--|--------------|--|--|
| | | | | | | |

NAME: _____

SCHOOL: _____

SIGNATURE: _____ DISTRICT: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two sections A and B.
2. Section A has 20 questions (40 marks) and Section B has 12 questions (60 marks).
3. Answer all questions in both sections A and B.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
Only diagrams should be drawn in pencil.
5. Unnecessary crossing will lead to loss of mark.
6. Poor handwriting, which can not be easily read may lead to loss of marks.

FOR EXAMINER'S USE ONLY

| SECTION | SCORES | REMARKS |
|--------------|--------|---------|
| A | | |
| B | | |
| TOTAL | | |

Teacher's comment to the pupil

ORGANISED BY:

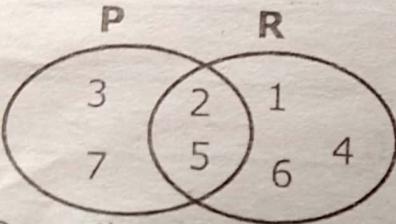
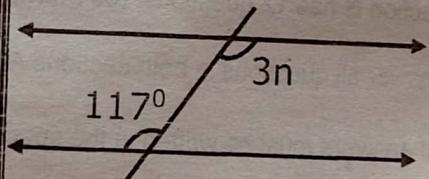


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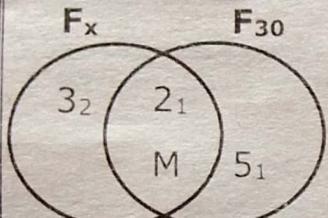
SECTION A (40 Marks)

| | | | |
|----|--|-----|---|
| 1. | Multiply: 32×6 | 2. | What is the place value of 3 in 234_{five} ? |
| 3. | Workout: $2 + k = 4$ (finite 5) | 4. | Solve: $2n + 5 = 13$ |
| 5. | Study the Venn diagram and answer the question.  Describe members of set P. | 6. | Express 108 km/h into metres per second. |
| 7. | Jackson is four times as old as Shamim, the difference in their ages is 18 years. How old is Jackson? | 8. | Study the figure and answer the question.  Find the value of n. |
| 9. | Divide: $1896 \div 12$ | 10. | Workout the square root of $1\frac{11}{25}$ |

11. Convert **8.009** tonnes to kg.

12. The circumference of a circular pond is **44dm**. Calculate the radius.

13. Study the Venn diagram and answer the question.



Find the value of **M**.

14. Using a ruler, pencil and a pair of compasses only, construct an angle of $67\frac{1}{2}^{\circ}$.

15. Given that set $W = \{\text{all prime numbers between } 90 \text{ and } 100\}$. Find $n(W)$.

16. The bus fare from Kampala to Gulu was increased by $16\frac{2}{3}\%$. If the old bus fare was **Sh. 30,000**. Calculate the new fare.

17. Expand **79.08** using powers of ten.

18. Opio turned clockwise from North to South east, through what angle did he turn?

19. The LCM of two numbers is **36** and their GCF is **6**. If one of the numbers is **12**, calculate the second number.

20. Given that $2^n = 8$. Find the value of **n**.

SECTION B (60 Marks)

21. a) Workout the number whose scientific notation is **3.8×10^2** .

b)

Use distributive property to workout.
 $(125 \times 9) - (25 \times 9)$

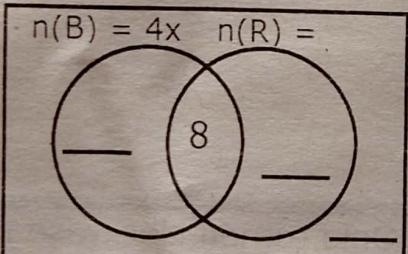
(02 marks)

(02 marks)

22. In a family **$4x$** members eat beans (**B**) same eat rice (**R**), 8 members eat both beans and rice, **13** members eat rice only while **$(x-3)$** members did not eat any of the two types of food.

a) Use the above data to complete the Venn diagram below.

$$n(\Sigma) = \underline{\hspace{2cm}}$$



$$n(B) = 4x \quad n(R) = \underline{\hspace{2cm}}$$

(03 marks)

b) If **19** members did not eat rice, calculate the value of **x**.

(02 marks)

23.

Simplify: $\frac{2.4 \times 0.5}{0.12}$

a)

b)

Workout: $2\frac{7}{15} + \frac{3}{7} \div \frac{9}{14} \times \frac{4}{5}$

(02 marks)

(03 marks)

24.
a)

Using a ruler, pencil and a pair of compasses only, construct a triangle **RST** where **RS = 7cm**, angle **RST = 75°** and length **ST = 6cm**.

(04 marks)

b)

Measure length **RT**.

(01 mark)

25.

Ochola bought the following items.

4kg of sugar at Sh. 3800 per kg

200g of tea leaves at Sh. 2000 per kg

3½ kg of beans at Sh. 1400 per half kg.



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PRIMARY SEVEN MATHEMATICS PRE-PLE SET I EXAMINATION 2024

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a)

How much money did Ochola spend for all the items?

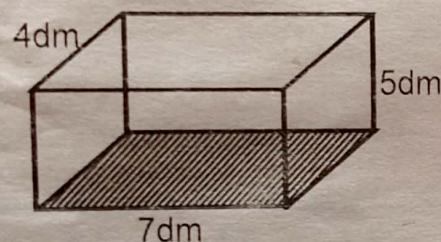
b)

If Ochola paid **Sh. 22,000**, calculate the discount he was offered.

(04 marks)

(01 mark)

26. Study the diagram below and answer the questions



a) How many vertices does the figure have?

(01 mark)

b)

Calculate the area of the shaded region.

c)

Workout the sum of all the length of edges the above prism.

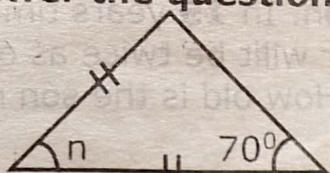
(04 marks)

(02 marks)



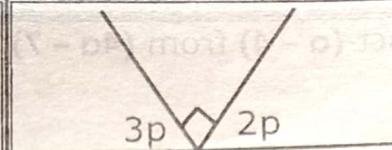
27.

Study the figure below and answer the question.



- a) Find the value of n .

b)



Workout the size of angle mark
3p.

(03 marks)

(02 marks)

28. a) Increase **60** pupils in the ratio of **6:5**.

b)

Arrange $\frac{1}{2}$, $\frac{2}{3}$ and $\frac{3}{5}$ starting with the biggest.

(04 marks)

(02 marks)

29. a) **Workout:** $2 - 3 = \underline{\hspace{2cm}}$ (finite **5**)

b)

While marking a test of **25** questions, a teacher awarded **4** marks for every correct answer and deducted a mark for every wrong answer. If Teddy scored **70**marks, how many questions did she get correct?

(04 marks)

(02 marks)

| 30. | a) Subtract $(a - 4)$ from $(4a - 7)$ | b) A father is 20 years older than his son. In 15 years time, the father will be twice as old as his son. How old is the son now? | | | | | | | | | | | | |
|--------------|---|---|----|----|----|----|----|--------------|---|----|---|---|---|--|
| 31 | (02 marks) P.7 did a test and scored as shown on the table below. Study and answer the questions. | (03 marks) | | | | | | | | | | | | |
| | <table border="1" data-bbox="388 669 1007 763"> <thead> <tr> <th>Marks</th><th>72</th><th>85</th><th>90</th><th>95</th><th>96</th></tr> </thead> <tbody> <tr> <th>No of pupils</th><td>4</td><td>12</td><td>1</td><td>4</td><td>5</td></tr> </tbody> </table> <p>a) What was the mode mark.</p> | Marks | 72 | 85 | 90 | 95 | 96 | No of pupils | 4 | 12 | 1 | 4 | 5 | <p>b) Calculate the mean mark of the pupils who scored above 85.</p> |
| Marks | 72 | 85 | 90 | 95 | 96 | | | | | | | | | |
| No of pupils | 4 | 12 | 1 | 4 | 5 | | | | | | | | | |
| | (01 mark) | (03 marks) | | | | | | | | | | | | |
| 32 | A fruit seller had sacks containing 72 mangoes, 84 oranges and 96 apples to be sold in equal number in heaps. | | | | | | | | | | | | | |
| a) | Find the highest number of heaps in each category of fruits. | b) How many heaps were formed from a sack of 96 apples? | | | | | | | | | | | | |
| | (03 marks) | (02 marks) | | | | | | | | | | | | |



THE JEROX PRE - PLE SET I EXAMINATION 2024

Primary Seven Integrated Science

TIME ALLOWED: 2 HOURS 15 MINUTES

Index No.

| Random No. | Personal No. |
|------------|--------------|
| | |

NAME: _____

SCHOOL: _____

SIGNATURE: _____ DISTRICT: _____

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2. Section A has 40 questions (40 marks) and Section B has 15 questions (60 marks)
3. Answer all questions in both sections A and B.
4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink.
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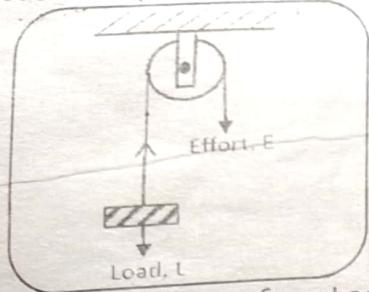
Section A (40 Marks)

(Questions 1 to 40, carry one mark each)

1. Name **one** method of soil formation.
2. To which group of flowering plants are legumes?
3. Give **one** example of germs apart from bacteria.
4. Name **one** example of a voluntary muscle.
5. State **one** danger of not brushing teeth every after meal.
6. Why is copper called a good conductor of electricity?
7. Give **one** way of increasing the pitch of a stringed musical instrument.
8. Why is chlorophyll important in the process of photosynthesis?
9. **Which property of air is illustrated in the diagram below?**

10. How is pinhole similar to the human eye in the way they work?
11. Apart from trapping dust, give another function ear wax produced in the auditory canal.
12. How is the cutting of trees for charcoal dangerous to the environment?
13. Give **one** farm practice prevents inbreeding cattle.
14. What condition in babies is shown by sunken soft spot on the head?

15. How does the pulley system below make work easy?



16. How is boiling of water for drinking important to human life?

17. Name **one** instrument at school that operates by the help of electromagnet.

18. How is the reproduction of yeast different from other fungi?

19. Apart from warmth, give **one** other condition necessary for seed germination.

20. Name **one** activity that can help to reduce the spread of malaria in our communities.

21. Why does a piece of brick sink when placed on water?

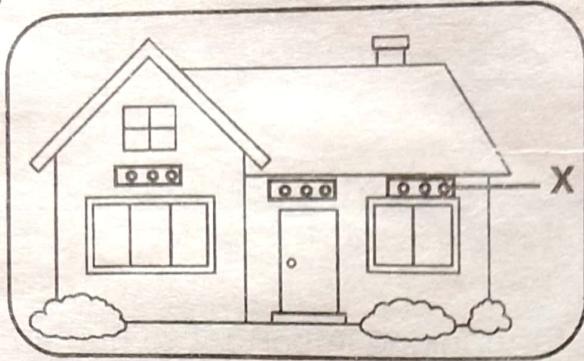
22. Give the difference in function between a urinary bladder and a gall bladder.

23. Apart from keeping soil moisture, give another reason for mulching.

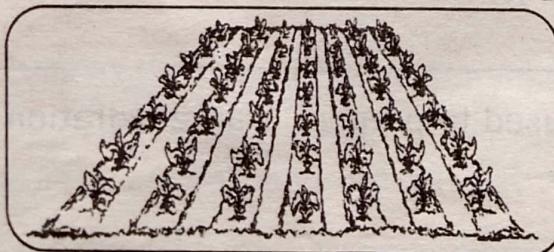
24. What is the use of synovial fluid in a joint?

25. Name **one** component that can be used to prepare oral rehydration locally instead of sugar.

Use the diagram below of a living house to answer questions 26 and 27.



26. Name structure labelled X.
27. How is the above structure keep the house in good condition?
28. Give **one** reason why vitamins are not digested.
29. State any **one** practice that reduces soil erosion in hilly areas.
30. Give **one** way farmers can increase the production of milk on a dairy farm.
31. Why should knives and pangas be kept in dry places?
32. Apart from having valves, how else is the heart adapted to its function?
33. Why is it important for the government to gather information about population changes?
34. How is the function of the human skin similar to that of the kidney?
35. Give **one** reason why breast milk is the best food for babies.
36. Why are some people unable to see distant objects?
37. Give **one** way health education can be conducted at school.
38. **Name the method of planting crops shown below.**



39. Give **one** energy resource from the sun.

40. State any **one** cause of soil degradation.

SECTION B (60 Marks)

(Questions 41 to 55, carries **four** marks)

41. (a) State **two** primary sex characteristics common in boys and girls.

(i) _____

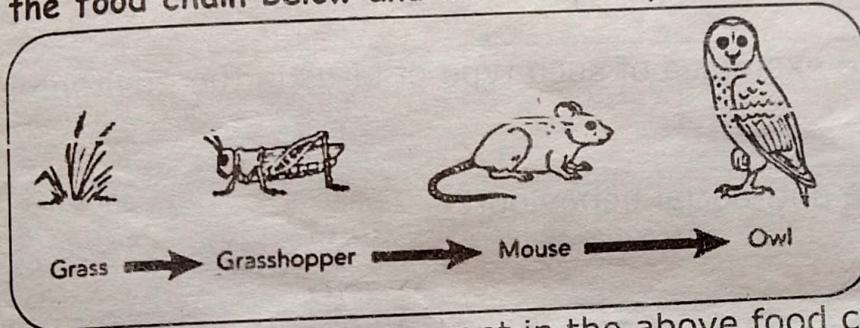
(ii) _____

(b) Where in the human reproductive system do the following take place;

(i) implantation? _____

(ii) conception? _____

42. Study the food chain below and answer the questions that follow.



(a) What do the following represent in the above food chain;

(i) Grass? _____

(ii) Owl? _____

(b) What do you think will happen to the mouse when the owls increase in number?

(c) State the general name given to grasshopper, the mouse and the owl.

43. (a) Give the difference in blood received by the right auricle and that received by the left auricle of the heart.

(b) To which system of the body do we find the human heart?

(c) State any **one** disease that affects the heart.

44. (a) What is heat period?

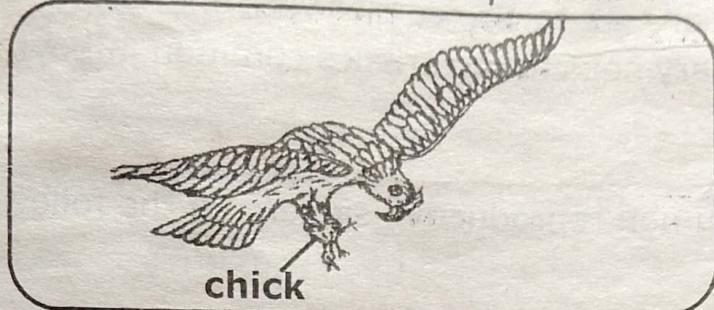
(b) Give any **two** signs of heat period in goats.

(i) _____

(ii) _____

(c) How is mating important in animal husbandry?

45. Study the diagram below and answer questions that follow.



(a) To which group of birds is the above bird?

(b) How are such birds dangerous to poultry farmers?

(c) Give **two** examples of such type of birds in the environment.

(i) _____

(ii) _____

46. (a) What are anti-social behaviour?

(b) Give **one** example of anti-social behaviour.

(c) State any **one** cause of anti-social behaviour.

47. The diagram below shows a boy who had an accident in a dining hall, being given a first aid by his teacher. Study it and answer the questions that follow.



(a) Name the type of accident the boy got.

(b) Give **two** possible causes of the above accident.

(i) _____

(ii) _____

(c) Why is the above first aid important to the boy?

48. (a) What is the importance of digestion to the human body?

(b) Why does digestion of food end in the ileum?

(c) How do the following organs take part in the process of digestion;

(i) The tongue? _____

(ii) The teeth? _____

49. Complete the table below.

| Vaccine | Disease | Site |
|---------------|--------------|-----------------|
| (i) _____ | tuberculosis | Right upper arm |
| DPT | (ii) _____ | Left upper arm |
| Polio vaccine | Polio | (iii) _____ |
| (iv) _____ | Measles | Left upper arm |

50. (a) Give **one** method used to obtain clean water from dirty water.

(b) How can water be obtained by the above method be made safe?

(c) State how the following mixtures can be separated.

(i) Salt and iron filings.

(ii) Salt and water.

51. (a) What do we call a meal that contains all food values in their correct amount?

(b) Mention any **two** classes of food that make up the above meal.

(i) _____

(ii) _____

(c) Give any **one** modern way of preserving food.

The diagram below shows a poultry vice, use it to answer questions that follow.



52. (a) Identify the poultry vice shown in the diagram above.

(b) State **two** possible causes of the above poultry vice.

(i) _____

(ii) _____

(c) Give the best way of controlling the above poultry vice.

53. (a) State **two** causes of a short circuit.

(i) _____

(ii) _____

(b) Give any **one** danger of a short circuit.

(c) How does a fuse prevent dangers caused by short circuits?

54. Match the following correctly.

- | | |
|----------------|--------------------------------------|
| a) Hoe | for pruning tomatoes. |
| b) Trowel | for weeding coffee. |
| c) Garden fork | for transplanting cabbage seedlings. |
| d) Secateurs | for turning manure. |

(a) Hoe _____

(b) Trowel _____

(c) Garden fork _____

(d) Secateurs _____

55. (a) How do the following animals reproduce;

(i) Man? _____

(ii) Bacteria? _____

(b) Give **two** reasons why animals reproduce.

(i) _____

(ii) _____

